

Title (en)

Yoke bearing assembly for hydraulic power assist rack and pinion steering system

Title (de)

Lagerung eines Anpressstücks einer hydraulisch verstärkten Zahnstangenlenkung

Title (fr)

Dispositif de support pour poussoir pour direction assistée hydraulique à crémaillère

Publication

EP 1201527 A2 20020502 (EN)

Application

EP 01125531 A 20011025

Priority

US 69782300 A 20001026

Abstract (en)

A rack and pinion steering gear assembly (10) for a vehicle comprises a housing (12) having a rack chamber (24) and a bearing chamber (35). The housing (12) has opposed slots (40, 42) opening into the bearing chamber (35). A rack (14) is movable in the rack chamber (24) in the housing (12) to effect steering movement of steerable wheels of the vehicle. A rotatable pinion (20) is in meshing engagement with the rack (14). An axle (70) located in the bearing chamber (35) in the housing (12) has opposite end portions (74, 76) located in the opposed slots (40, 42) in the housing. A bearing (60) is in engagement with the rack (14) and is supported on the axle (70) for rotation in the bearing chamber (35). A cover (90) supported on the housing (12) engages the axle (70) to hold the bearing (60) in engagement with the rack (14) and to hold the rack in engagement with the pinion (20).

IPC 1-7

B62D 3/12; **B62D 5/22**

IPC 8 full level

B62D 3/12 (2006.01); **B62D 5/22** (2006.01); **F16H 55/28** (2006.01); **F16H 57/12** (2006.01)

CPC (source: EP US)

B62D 3/123 (2013.01 - EP US); **B62D 5/22** (2013.01 - EP US); **F16H 55/283** (2013.01 - EP US); **F16H 55/285** (2013.01 - EP US); **Y10T 74/19623** (2015.01 - EP US); **Y10T 74/1967** (2015.01 - EP US)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 1201527 A2 20020502; **EP 1201527 A3 20020522**; **EP 1201527 B1 20080213**; DE 60132744 D1 20080327; DE 60132744 T2 20090205; US 6467366 B1 20021022

DOCDB simple family (application)

EP 01125531 A 20011025; DE 60132744 T 20011025; US 69782300 A 20001026